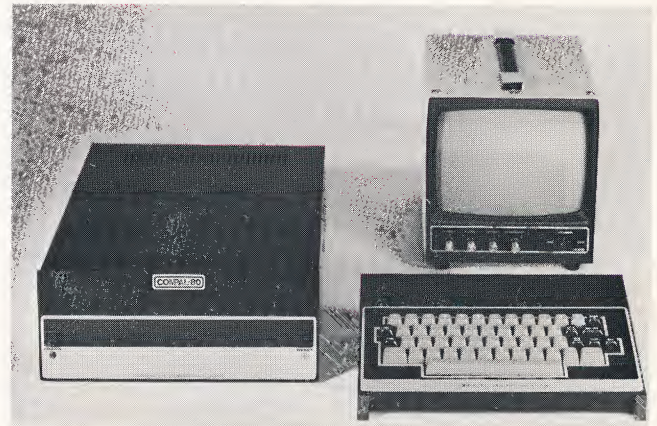


# THE COMPAL 80 COMPUTER

WCCF77

(S-100)

The COMPAL-80 computer is a micro-processor based machine which may be used as a high-performance desk-top computer; as an intelligent terminal within a large time-sharing system; or as the basis of an expanded system for business data processing, word processing, or microcomputer software development. The all-inclusive design of the hardware, the compatibility with standard computer peripherals, and the variety of powerful software available for the COMPAL-80 computer mean that it can be put to work immediately.



## HARDWARE SPECIFICATIONS

The COMPAL-80 Computer is a completely assembled and tested system. It uses the popular S-100 bus, and only the best, standard, electronic components. The basic system includes:

**CPU:** 8080A microprocessor; 8-level vectored interrupt de-coder; real-time clock; bus request logic for DMA or multiple processors; single-step logic; 1K bytes PROM (with room for additional 2K) and 512 bytes RAM on-board; 8251 USART.

**MEMORY:** 16K bytes (up to 64K optional) static RAM; 16K memory boards by E.M.M.

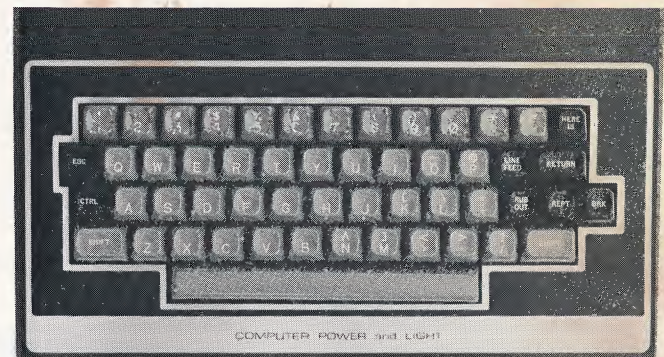
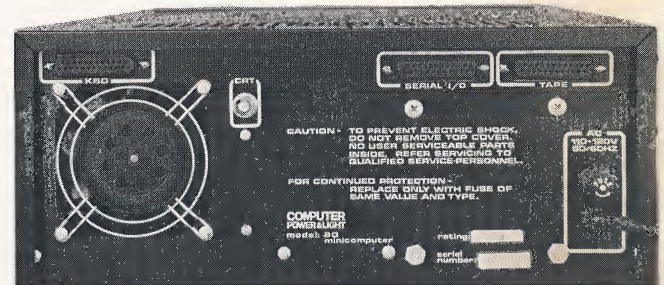
**KEYBOARD:** ASR-33 type with capacitance switches for extra-long life, by Keytronic.

**PERIPHERAL INTERFACES:** Parallel port for keyboard; 300 baud/2400 baud audio tape cassette interface; serial port which may be configured in EIA RS-232 format for communications (modems, remote terminal use) or EIA standard peripherals, or in 20 mA or 60 mA format for Teletypes and similar devices; all baud rates (50-56K) software selectable.

**VIDEO DISPLAY:** 16 lines x 64 characters, full ASCII set (upper and lower case); graphics mode, 48 x 128 points; high resolution 9" CRT.

**ENCLOSURES:** Anodized aluminum and painted metal cabinets; solid walnut trim on keyboard (optional on CPU).

**POWER REQUIREMENTS:** 50 or 60 cycles, 110-120 or 220 volts; CPU, memory, keyboard: 75 watts; video display: 27 watts; grounded outlet required.





## SOFTWARE FOR THE COMPAL-80

**RESIDENT MONITOR:** This permanently stored program allows the use of the keyboard and video display in place of the usual computer front panel lights and switches. Of particular importance is the ability to load software from tape or disk immediately, without using cumbersome toggle-switches and/or machine language code.

**COMPAL BASIC:** This is an "extended BASIC" designed to be compatible with the versions of the language offered by the large minicomputer manufacturers.

**MINIDISK BASIC:** This version of BASIC is designed for use in business and other data processing applications which require data files. It resides on and accesses the new "mini-floppy" diskettes.

**8080 ASSEMBLER:** This is a complete monitor/text editor/assembler for creating, assembling, testing, and storing on tape programs written using Intel Corp.'s standard instruction mnemonics.

**8080 ASSEMBLER (DISK VERSION):** As above, but also includes macro instruction capability and access to source and object files on disk.

**WORD PROCESSOR:** This is a program which allows you to create and edit text using the video display, store the text on tape or disk, and then print the text in a variety of formats.

**OTHER:** Since the COMPAL-80 uses the popular 8080 micro-processor, all 8080 software (available from Intel and others) is usable. In addition, COMPUTER POWER & LIGHT is continually developing application software for business, scientific, educational, and home use.

More software information, detailed fact sheets and operators manuals are available from COMPUTER POWER & LIGHT

## PERIPHERALS

All of the following are available at Computer Power & Light and are fully compatible with the COMPAL-80 system. Inquire about the availability/compatibility of other equipment not listed for your particular application.

**PRINTERS:** DECwriter LA-36 matrix printer; DIABLO 1620 high quality "daisy-wheel" impact printer; TEXAS INSTRUMENTS low-cost thermal printer.

**DISK DRIVES:** ICOM FD360 dual floppy disk drive; NORTH STAR/SHUGART Mini-floppy.

**VIDEO MONITORS:** Several sizes of monitors and monitor/receivers are available at Computer Power & Light. We stock only high-resolution, first quality monitors — no "converted" TV sets. Check the price list for current models and sizes.

**TAPE RECORDER:** We supply the Panasonic RQ 413S audio cassette player/recorder.

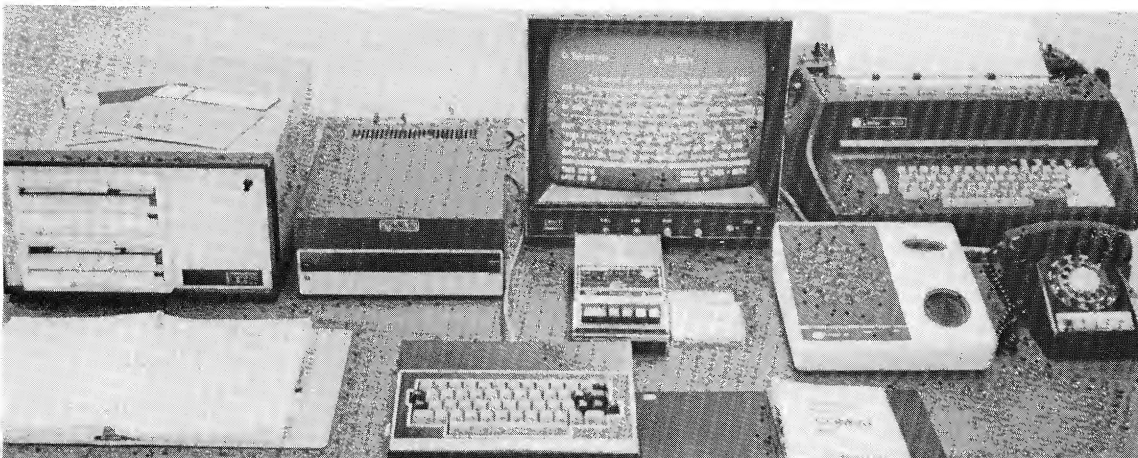
**MODEM/ACOUSTIC COUPLER:** We offer the popular NOVATION DC-3100 series acoustic modems.

## WARRANTY AND SERVICE

The COMPAL-80 computer is guaranteed for 6 months. Any components which fail because of defects in material or workmanship within this time will be replaced at no charge for parts or labor. All servicing is done at Computer Power & Light's workshop. Repairs outside the warranty period are done on a low cost time and materials basis.

For purchasers of expanded systems, on-site warranty service is provided. Beyond the warranty period, we recommend a maintenance/service contract, by which all on-site service is provided for a fixed monthly fee.

The design of the COMPAL-80 computer is completely modular, enabling quick diagnoses and repair by exchanging individual modules. All components used in the computer are *standard* parts manufactured by many of the country's leading electronics firms. You are assured that the COMPAL-80 computer you purchase today will remain operable and serviceable for many years to come.



**COMPUTER  
POWER & LIGHT INC.**

- PRICE LIST -

COMPAL-80 COMPUTER SYSTEMS (includes CPU, keyboard, peripheral interfaces, 9" video monitor, enclosures, all cables, resident monitor on PROM, BASIC language on cassette) with:

16K memory	\$2,300.00
24K memory	\$2,675.00
32K memory	\$2,875.00

COMPAL-80 SYSTEMS as above, minus 9" monitor, with:

16K memory	\$2,185.00
24K memory	\$2,560.00
32K memory	\$2,760.00

## VIDEO MONITORS:

Panasonic TR-195M, 19" monitor	\$315.00
Sanyo VM-4092, 9" monitor	\$165.00
Hitachi VM-905, 9" monitor	\$220.00
Hitachi VM-172, 17" monitor	\$335.00
Hitachi P-05M, 12" monitor/receiver	\$199.00

TAPE RECORDERS:

Panasonic RQ413S	\$75.00
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## ACOUSTIC MODEM:

Novation DC3102A	\$295.00
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PRINTER TERMINALS:

Decwriter II: LA-36 matrix printer with	
keyboard.....	\$2,200.00
LA-35 matrix printer.....	\$1,900.00
Diablo 1620 daisywheel printer.....	\$3,300.00 (form tractor \$295.00)
T.I. "Silent 700" series thermal printer..	\$1,195.00

DISK DRIVES :

<u>DISK DRIVES:</u>		
iCOM FD-360 dual floppy	(with FDOS II software)...	\$3,600.00
Shugart/North Star mini-disk system		
(with DOS and Disk BASIC).....		\$838.00
Micropolis mini-disk subsystems:		
1043-II 315K byte single drive.....		\$1,095.00
1053-II 630K byte dual drive.....		\$1,795.00

KEYBOARDS :

COMPAL-80 ASR-33 type keyboard..... \$165.00 (no charge with C-80 system)  
COMPAL-80 upper/lower case full ASCII.. available May 1st, 1977.

## MAGNETIC TAPES / DISKS :

COMPAL C-6 cassette tapes	\$1.00
COMPAL C-50 cassette tapes	\$2.00
Dysan type 3740 floppy diskettes	\$10.00
Dysan type 107 floppy diskettes	\$7.00

... ask to see our catalogue of software/programs!